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SCIENTIFIC INTELLIGENCE COMMITTEE

23 DEC 1974

MEMORANDUM FOR: Director of Central Intelligence

SUBJECT: Progress in Meeting Letter of Instruction Goals

REFERENCE: LOI, approved 15 July 1974, copy attached (Tab A)

With respect to the specific tasks in your letter of instruction to me, I wish to report the following:

Paragraph I.a. -- The new charter was disseminated to the members, the IC Staff and other interested parties on 23 October. A copy is attached as Tab B and we are operating unofficially under its provisions. The charter will not be effective officially until new DCIDs are approved for STIC and GMAIC. A draft DCID 3/5 for the STIC has been prepared and submitted to the IC Staff.

Paragraph I.c. -- The SIC made suggestions in June concerning five KIQs which were positively reflected in the KIQs published on 9 August. The Committee also participated in the preparation of several KIQ Strategy papers, [REDACTED]

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Paragraph I.d. -- The SIC considered the wide spectrum of scientific and technical interests of the members of the Intelligence Community and prioritized those of concern to the SIC in three groups (table attached). These groupings are under study by the Priorities and Resources Subcommittee, under the Chairmanship of Dr. Anthony J. Cacioppo, Vice Chairman of the SIC and Chief Scientist for the Air Force's Foreign Technology Division and will be elaborated upon during the next year. The major share of the Committee's attention is being devoted to those topics in Priority Group I; those in the other

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SENSITIVE INTELLIGENCE SOURCES  
AND METHODS INVOLVED

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SUBJECT: Progress in Meeting Letter of Instruction Goals

groups will be watched closely, particularly as to whether they should receive even more attention and be made higher priority items.

Paragraph I.g. -- An Ad Hoc Working Group on the Military Implication of Technology Transfer was established in July. Its report was presented to the Committee on 14 November and the draft is being coordinated for early publication. It was not possible to make the October target date for this paper, but it should be completed in January. Because of changing conditions, I have decided, with the advice of the Committee, that the report on Free World technologies mentioned in paragraph I.g. will not be prepared at this time.

Paragraph I.j. -- The new organization of the SIC, to be called STIC, is detailed in the Charter and is reflected in the draft DCID 3/5. These changes are substantially complete; only the official approval of the DCID remains.



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Attachment:  
As Stated

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Chairman, Scientific and Technical Intelligence Committee

I. I instruct you as Chairman of the Scientific and Technical Intelligence Committee (STIC) to direct the thrust of the STIC so as to support the USIB, the NIOs, and other tasking elements in the KIQ process. The STIC should take the lead in providing a dynamic overview and coordinate all intelligence community activities related to significant foreign science and technology which might lead to future political, military or economic threats to the U.S.

Specifically I instruct you to:

a. Prepare a working charter for the STIC and draft a new DCID to reflect the new situation. The charter should be completed during August 1974 and the draft DCID during October 1974.

b. Assure that the predominant work of the STIC is directed toward major interests of high-level consumers and the NIOs as reflected by their own requests or the KIQs. This assurance should be provided during November 1974.

c. Recommend KIQs to the NIOs on a continuing basis. The first set of recommendations should be presented by July 1974.

d. Prepare a display and report to me and to USIB on the major science and technology interests of the Intelligence Community in priority groupings to assist in guiding judgments in the resource allocation process. This display should be presented during October 1974.

e. Prepare a display and report to me on present and planned collection efforts and recommend to me the proper thrust for these efforts against the highest priority grouping so as to avoid gaps and undesirable duplication in coverage. This display and report should be presented to me during the first quarter of CY 1975 for use in my annual NFIPB Recommendations.

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f. Similarly, prepare a display and report to me on present and planned finished S&T intelligence production throughout the Community against the highest priority grouping of scientific and technological interests within the Committee's charter so as to avoid gaps or undesirable duplication and direct the thrust on the priority items. This display and report should be presented to me during the second quarter of CY 1975.

g. STIC will report on the military implications of technology transfer to the USSR to assist in the forthcoming COCOM deliberations in late 1974. The report will be completed and presented during October 1974. If you deem it necessary, a report on foreign Free-World technologies will be prepared to support the GATT negotiations to begin in late 1974.

h. STIC will prepare a report on the military potential of Soviet beam weapon R&D to update the NIO interagency study scheduled for completion in June 1974. The updated report should be completed and presented during the second quarter of CY 1975.

i. STIC will devote its efforts to the high-priority scientific and technological problems, both military and civil-related; institute broad interdisciplinary studies; report on military and civilian technologies having future applications and unidentified activities and anomalies in the scientific and technological area; as well as provide forums for the timely exchange of current S&T intelligence. To accomplish these tasks, you will henceforth discontinue your Committee's activities on assessing technical characteristics of current foreign weapon systems.

j. You are requested to recommend reorganization of the former SIC subcommittees and working groups to best carry out these changes and to increase interagency communications for more efficient tasking by NIOs. This reorganization should be completed during September 1974.

k. You are to continue to have the STIC provide staff support for international S&T intelligence conferences in the United States and representatives to such conferences abroad.

II. Your efforts will be guided by the operating precept that the STIC is to provide early warning of significant foreign S&T advances in areas within the Committee's charter. You will enlist participation from all talent available to the government so that I can speak authoritatively on these S&T matters of intelligence concern, allowing for major differences in points of view to be clearly differentiated with supportive arguments. You are directed to invite representation from offices, departments, and agencies of the government not traditionally considered part of the Intelligence Community, such as Commerce, DARPA, DDR&E, and NSF, if they can contribute to the solution of a specific STIC problem.

III. You are further directed to work closely with the chairmen of other USIB Committees, such as EIC, JAEIC, and GMAIC, to resolve the broader intelligence questions which I have posed which require a strong interdisciplinary approach. As previously, the STIC should take the initiative in ensuring that coordination is effected in areas of joint or overlapping concern, without this implying a supervisory role over the normal activities of the other committees.

24 JUN 1974

MEMORANDUM FOR: Director of Central Intelligence

SUBJECT: Letter of Instruction, Chairman,  
Scientific and Technical Intelligence  
Committee

1. The attached is a proposed LOI for [redacted] as Chairman, Scientific and Technical Intelligence Committee. It reflects the redirection of the SIC agreed when he was nominated as Chairman.

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2. Your approval of this LOI will enable [redacted] to carry out the changes envisaged even before a new DCID is approved. We are working with SIC and a draft DCID will be ready shortly. IC also intends to meet with Carl Duckett, Dave Brandwein, [redacted] and possibly DIA to determine the best means for handling the spin-off activities of the old SIC. [redacted] STIC will continue work in those areas until other arrangements are made.

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[redacted]  
Daniel O. Graham  
Lieutenant General, USA  
D/DCI/IC

Attachment:  
As Stated Above

APPROVED:

Date

15 JUL 1974

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23 OCT 1974

This charter assumes that the present SIC Naval Systems Working Group, Aircraft Working Group, and the BW&CW Subcommittee will be under the direction of another USIB Committee. Until such transfer is established by the appropriate DCID, these SIC subunits will continue their activities as at present reporting to and responsible to STIC. This charter is for use within the STIC and for the information of others who may be interested. It is a "working-level" document, subject to modification as experience dictates.

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23 October 1974

## CHARTER

### SCIENTIFIC AND TECHNICAL INTELLIGENCE COMMITTEE

#### Name of Committee

Because of the increased emphasis the Committee will place on foreign intelligence related to technology, the name of the Committee will be changed from Scientific Intelligence Committee to Scientific and Technical Intelligence Committee (STIC).\*

#### Mission

The operating precept of the Scientific and Technical Intelligence Committee is to provide early warning of foreign scientific or technical advances, whether indigenous or imported, which could affect significantly the national security or national welfare of the United States. The mission of STIC is to develop and maintain a unified intelligence community approach to the production of foreign intelligence on developing scientific and technical areas in support of substantive national and multidepartmental objectives. The STIC will advise USIB on scientific and technical matters within the Committee's areas of concern. The STIC, in support of USIB, will also review, stimulate, guide, and coordinate collection activity and information processing in response to resource management objectives in these areas. The STIC will also provide a mechanism for the timely exchange of scientific and technical information for intelligence purposes related to the national security.

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\* This name change and various subunit changes will become official when the appropriate DCID is approved.

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### Scope

The domain of STIC substantive responsibility will include, but will not necessarily be limited to intelligence on: physical and life sciences; engineering; technology; future technology; unconventional future weapon systems; and contributions to and participation in net assessments. Not included are those specific subjects falling under the purview of other USIB scientific and technical intelligence committees.

### Objectives\*

#### Priority Group I

• Determination of and response to priority needs of USIB and other senior level consumers, including the NIOs. The KIQs and other such instruments will guide the activity of the STIC, which will recommend KIQs in areas within its purview.

• Examination of present and future collection activities directed toward targets of STIC interest. In the areas under its cognizance, the STIC will assess collection and processing effectiveness, identify and reinforce insufficiently exploited activities, identify information gaps, and develop collection concepts for high-priority S&T issues.

• Examination of finished intelligence production activities of STIC interest throughout the Intelligence Community. In its assigned areas,

\* These objectives and priorities will be reviewed frequently and adjusted as national needs change.

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the STIC will identify important new production requirements, assess production coverage, identify and take steps to eliminate unjustified duplication, and recommend resource adjustments where required.

- Identification and assessment of critical issues involving interdisciplinary S&T activity or issues of a greater degree of complexity than that of a given technology or system. Such issues include technology transfer, assessment of the impact of specific foreign S&T achievements and capabilities on the United States, and assessment of human engineering and reliability research.

- Identification and assessment of critical technologies to provide early warning to policy makers of those technologies which could lead to the significant improvement or development of future foreign weapon systems or potential economic threats.

- Assessment of unconventional future weapon systems such as those based on laser technology.

#### Priority Group II

- With respect to specific technologies, assessment of Communist and Free World science and advanced technology which may impact on national interests and where an Intelligence Community position is desirable; both military-related and civilian technologies will be addressed. Such assessments may include special studies for support to SALT, MBFR, trade negotiations and trade control, and responses to KIQA.

- Coordination of Intelligence Community efforts to assess foreign science policies and objectives, including R&D management and decision making, and determination of foreign scientific and technical resources.

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- Assessment and establishment of an Intelligence Community position regarding certain unidentified foreign activities and anomalies in the S&T area.

- Provision of suitable forums for the exchange of current S&T intelligence information on a timely basis.

### Priority Group III

- Joint activities with other USIB Committees as well as with consumer organizations such as ARPA, DDR&E, the NSF and the Department of Commerce.

- Provision of staff support and representation, as required by USIB, for international conferences on scientific and technical intelligence, both here and abroad.

## Specific Areas of S&T Responsibilities\*

### Priority Group I

- ASW technology
- Command, Control, and Communications (C<sup>3</sup>) Technology
- Computers and computer sciences
- Electronics
- Guidance and control (including precision guided munitions -- PGM)
- Human engineering and reliability
- Lasers and other directed energy technologies
- Reconnaissance and surveillance technology

\* The priorities will be reviewed frequently and adjusted as national needs change. Items within Groups are listed alphabetically. The listing is intended to suggest equality rather than prioritization within a group.

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Priority Group II

- Energy conversion
- Geodesy and Gravimetry (G&G)
- Industrial production technology
- Manned aerospace and underseas life support systems
- Non-laser related electro-optics
- Ocean technology
- Propulsion
- Science and technology policies
- Transportation

Priority Group III

- Biomedical Science and Technology
- Earth sciences
- Materials and structures
- Physical sciences
- Space sciences

Organization

The STIC will have Subcommittees, Advisory Groups, Working Groups and a Secretariat. The organization of the STIC is intended to reduce the hierarchy to two levels and give new emphasis to the priorities and resource management role, raising it to the level held by traditional technical intelligence activities which should continue more or less

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as before, with some redirection of effort. Both the Subcommittees and Advisory Groups are intended to be more or less permanent subunits with coequal status, the one dealing with priorities and resources and the other with substantive areas of concern. Working groups are coequal with the other subunits but are of a temporary or ad hoc nature tasked for a particular purpose and usually drawing their members from among the Subcommittee and Advisory Group members.

Subcommittees -- The STIC will have on a semipermanent basis a small number of subcommittees. Each will serve in a staff function to prepare management guidance on behalf of the STIC for the USIB on such matters as priorities, collection, and production within the limits of STIC responsibilities.

One subcommittee will identify on a continuing basis the key areas of current priority within the STIC charter. Such priorities should be related to the KIQA, the needs of NIOs, and the most important interests of top level consumers. They should also include important technologies which are just beginning to emerge and may not have reached the attention of upper management. In this latter role, the subcommittee will lean heavily on the STIC Advisory Groups. This subcommittee will monitor the adequacy of resources to meet these priorities and will report to STIC in support of IRAC. It will also recommend adjustment in the number of, and areas to be covered by, STIC Advisory Groups.

A second subcommittee will examine carefully all significant collection techniques being used and being planned which are totally or in part dedicated to collection in areas of STIC responsibilities. This subcommittee will seek to uncover undesirable duplication or gaps that may exist and will rank collection techniques in priority groupings as they apply to STIC responsibilities.

A third subcommittee will carry out a comparable examination of existing and planned production of intelligence for basically similar purposes to those stated above for collection.

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Additional subcommittees, if any, would be directed only toward matters of management guidance and support rather than toward finished technical intelligence or current technical intelligence exchange. Working groups will not be a permanent part of any subcommittee, although such a group might be formed on an ad hoc basis with the approval of the STIC.

The subcommittees will include representatives only of the USIB or other agencies which have a major role to play. Those agencies not represented on a subcommittee will have an opportunity for review prior to submission to the STIC and for approval of subcommittee actions at the STIC level. STIC members or their alternates will normally serve as subcommittee chairmen and may serve as members.

Advisory Groups -- The early warning of significant foreign technical advances which may support military or civil development is a key function of the STIC. The Advisory Groups will have as their main purpose such alerting functions within their various technical areas. Each Advisory Group will serve as a forum for exchange and discussion of current intelligence and will arrange for special technical briefings for itself and for STIC when appropriate. In addition, the Advisory Groups may under special circumstances sponsor national or international conferences with USIB approval. The Advisory Groups should be informal but the number of participants should be limited to those who are actively involved unless special circumstances warrant that an exception be made. These groups usually would have no responsibilities for the production of finished intelligence, but may be asked to review documents and reports as appropriate. The initial number of groups and areas of coverage is tentative and will be adjusted by the STIC according to the recommendations of the Priorities and Resources Subcommittee.

Working Groups -- Only ad hoc working groups will be formed. They will be formed for the specific purpose of handling a well-defined high-priority task levied by the STIC. In some cases the task would be preparation of a technical intelligence report in a relatively narrow area.

In other cases the task would be the preparation of a report on an interdisciplinary subject of some breadth. In either case the composition of the working group should include only representatives of USIB or other agencies which have a major role to play. The members of the working groups as well as the chairman will usually be selected from among members of the Advisory Groups.

Initial Organization -- Initially the following sub-structure will be created.

Subcommittees

- Priorities and Resources
- Collection Program Evaluation
- Production Program Evaluation

Advisory Groups

- ASW Technology
- Behavioral and Human Engineering
- Biomedical Science and Technology
- Civil Technology (joint with EIC)
- Computers
- C<sup>3</sup> Technology
- Electronics
- Lasers and Electro-optics
- S&T Policies and Resources

Working Groups

- High Energy Laser Systems
- Military Implications of Technology Transfer
- "Monster" Sea-keeping Capability  
(with GMAIC participation)

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